

# ZERO BEAT

HAMPDEN COUNTY RADIO ASSOCIATION, INC

APRIL 82

VI QSL BUREAU

SPRINGFIELD, MASS

ARRL AFFILIATED, 34th YEAR

## MEETING DATE CHANGE

NEXT MEETING - FRIDAY MARCH 26, 1982

MOONBOUNCE AND VHF/UHF COMMUNICATION

(There will be NO meeting on Apr. 2, as the meeting date has been rescheduled to one week earlier on Mar. 26.)

Don't miss this next meeting! Dave Olean, K1WHS, antenna design engineer from Cushcraft will be our featured speaker. Dave's specialty is antenna systems for moonbounce communication. He is directly responsible for designing the new series of Cushcraft VHF / UHF "Boomer" antennas. His present two meter array was featured on the cover of September 1981 QST. It consists of twenty four 16 element boomers with which he can hear his echos off the moon using 20 (twenty!!) watts!! Dave is a fine speaker who is both informative and entertaining. Here is an excellent chance to learn more about this exciting topic in amateur radio!

SEE YOU THERE

"Quick As A Wink" Printing & Sales Co.  
573 Union Street West Springfield, Ma. 01089

NOTE: NEW ADDRESS



### INDUSTRIAL COMPONENTS CORP.

Wholesale Electronic Supplies  
2551 Boston Rd.  
North Wilbraham, Mass.  
Telephone 596-3854  
Batteries - Tubes - Electronic Parts

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## ZERO BEAT

### TIDBITS

Recent budget cuts at the FCC means reduced exam schedules and fewer enforcement personnel. We'll be lucky if they answer the phone, never mind send out people to help with jammers...WB1ETS has had a product review accepted by "Microcomputing80" magazine...Have you worked the RS satellites yet?...False commands directed to Strategic Air Command bombers on Air Force frequencies have been traced to an amateur in upstate New York. This will help you to understand why you may not be able to own rigs that work out of the ham bands someday...According to the FCC, recent "trouble spots" for 2 meter interference are Phoenix, Arizona and Western Mass...

### TEMPUS FUGIT

February '57 ZB saw W1STR (now N1PF) and W1WLE as editor...October '60 issue had W1HYO as editor and publishers W1KUL, W1UKR, and W1KUE. The club met at the Captain Leonard House. W1QWJ, W1RVW, and W1VNH were on 1200 mhz with APX-6's...March 1965 issue had K1RPB as editor, now known to us as W1JP, our illustrious SCM!...May '65 had K1NWE, W1GIV, and K1AEC battling it out for top WAS score. W1HDQ was the guest speaker...June '72 had K1BZM as VHF contest chairman, and those 6 meter gas company radios were going on the air...Oct '73 issue listed W1MM as guest speaker on amateur radio at Holyoke Rotary Club. (He's still doing it!) K1HYL teaching radio classes at Springfield Boy's Club...Nov '73 has new members W1RWU, W1DVW, and K1KBQ listed.....

TNX to W1GVV for some more old issues of Zero Beat!!!!!!!!!!

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### HAMPDEN COUNTY RADIO ASSOCIATION NOMINATIONS FOR -HAM OF THE YEAR-

Send the form below or a postcard to K1CRG, Ray Morin, yon Zero Beat editor.

#### Rules:

1. Any licensed radio amateur can be nominated.
2. Only HCRA members may nominate someone.
3. Only HCRA members may vote.

Voting will be done at the May Flea Market. Ballots will be in the May Zero Beat and at the flea market. Award will be presented at the June Banquet.

I nominate \_\_\_\_\_, \_\_\_\_\_,  
NAME CALLSIGN

to be placed on the ballot for the Hampden County Radio Association Ham of the Year award.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

# attention hams !

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THE HAMPDEN COUNTY RADIO ASSOCIATION

WELCOMES

**DAVID OLEAN  
K1WHS**

AT THEIR NEXT MEETING ON

**FRIDAY MARCH 26**

(Note the new meeting date)

LOCATION:

THE FEEDING HILLS CONGREGATIONAL CHURCH HALL  
CORNER OF ROUTES 57 AND 187, FEEDING HILLS, MA

DIRECTIONS:

From Route 91, take RT 57 West at exit 3 (Agawam / West Springfield exit over Conn. River.) Go 5 miles on Rt. 57 and take a right at first set of traffic lights. Go 200 feet and turn left into church parking lot. Talk in on 146.34 / 146.94 .

TIME:

**8:00 pm**

(Meeting starts)

DOORS OPEN AT 7:15 PM

TOPIC:

MOONBOUNCE COMMUNICATION, VHF & UHF ANTENNA SYSTEMS

Dave is an excellent speaker who has travelled across the country and overseas to give this presentation. His moon-bounce array was featured in QST a few months ago. As an antenna design engineer for Cushcraft Corp., he has had considerable experience with VHF / UHF antenna systems.

● → DON'T MISS THIS MEETING    ALL ARE INVITED ← ●  
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## AMATEUR RADIO- EMERGENCY SERVICE

### WEST. MASS. SECTION

In all of my explanations of the purpose and function of the Amateur Radio Emergency Service, I initially point out that, as defined by the American Radio Relay League, the ARES is a serving agency. This means that our service exists to provide emergency communications to private, public and governmental agencies such as the Red Cross, Salvation Army, Medical facilities, Civil Defense and local law enforcement units when requested by these organizations.

At a time when community, county or section level units of ARES have achieved the organizational and operational quality necessary to provide adequate emergency radio communications, the above-mentioned organizations or agencies are contacted and informed of this available service. Operational formats are usually developed between the served agency or agencies, and the local ARES unit.

Although no formal written emergency communications plan has been distributed for the Western Massachusetts Section, our ARES Emergency Coordinators, their assistants and active ARES members, along with NTS Section - level officials and members are familiar with the current ARES, NTS and repeaters network which functions at least weekly, to coordinate and familiarize ARES participants within this Section.

For emergency communications operations at the Section-wide level, the established primary ARES net is the Western Mass. Emergency (WMEN) which operates on 3.937 KHz. This net holds a session each Sunday at 0830 on the frequency. Appointed net members are assigned as liaison stations each Sunday and at 0900 these liaison members call in on five member repeaters, K1FFK Mt. Greylock, K1ZJH Mt. Tom, W1IAEF Proven Mt., W1GZ, Fitchburg and W1LABO Worcester. The liaison function provides multiple benefits to ARES and non-ARES participants. Amateurs who are not equipped for 75 meter operation at the time (they may be mobile or Tech class licenses) can still be logged as net members; they can, if they wish, originate formal traffic into the NTS, incoming traffic can be routed to destination via the repeater if no 75 meter station coverage is available and finally, this regularly scheduled operation acquaints all participants with the system and the personnel likely to be active in the event of an actual emergency situation.

Disaster situations, either simulated or real, when of localized nature would be covered by whatever local ARES units have been developed in the area concerned. Emergency communications requirements that expand to county or section area proportions would dictate the activation of additional repeaters which, if unable to establish 2 meter liaison between them, would then call for the activation of the WMEN on 75 meters. The WMEN would provide over-all section coverage with liaison capability between the 5 member repeaters. WMEN can also be activated to provide NTS capability from any or all member repeaters.

The two NTS section nets, W. Mass., Phone Net and WMEN (cw) can be called on to activate as back-up for WMEN if need be to handle excessive traffic loads.

Concluding is a listing of NTS/ARES nets in Western Mass., Net Managers, Emergency Coordinators and Member Repeater. Further details and/or coordination efforts may be provided by the E.C. for the county involved.

"WHY SHOULD I TAKE PART IN TRAFFIC NETS OR EMERGENCY SERVICE NETS? By W1BVR, Perc Noble

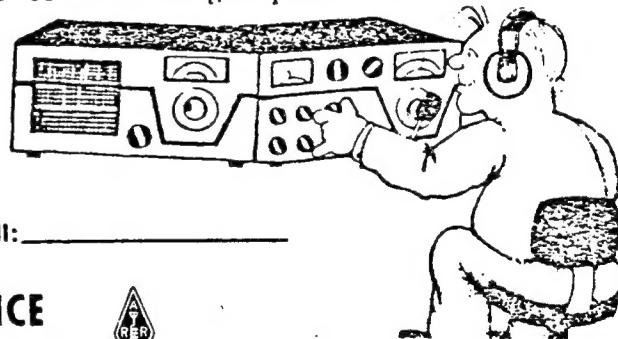
Amateur radio has one sole justification for its' existence-it is operated in the Public interest. During the years, it has always operated that way. Since the war, (World War II, ed.) however, it seems to me that many of our newly licensed hams have lost sight of this completely. Perhaps it is the fault of the ARRL for not informing them of this at even more frequent intervals. Even though we buy our equipment and pass our license examinations, we still operate our stations as a privilege-not as a right! When we fail to operate in the Public Interest, then we jeopardize our whole future. Many of the old timers in this game of ours appreciate this fact. But, we need new blood to take the places of these old timers when they are no longer active.

Don't you think you could spare say one night a month (for perhaps an hour) to take part in either a traffic net or an emergency service drill? How about taking a few minutes to look at "Message Handling", Emergency Operation", and "League Operating Organizations" sections in the ARRL handbook?

If you are interested in Emergency Service work, see your local Emergency Coordinator. Jeff, K1BE is Emergency Coordinator for Hampden County. Dick, W1LH1H is our Section Emergency Coordinator. If you're interested in Phone Traffic Nets, see the Western Mass Phone Net manager, Ed, W1LITL (Maybe we can get him at the April meeting. ed) And if you're interested in the CW traffic nets, we need you badly! Most of the control op's send the control signals at about 15-18 wpm. When traffic is being passed to fast operators, a bug is used and high speeds. Many of our present net members are not high speed people, but they seem to enjoy the net! The NCS will QRS if requested. Your code speed will rapidly go up with regular participation. You'll learn how to work in a controlled net and how to handle messages. All free for nuthin'!

73, Percy Noble

Editor's note: Although over 30 years old, this is truer today than ever. Western Mass Section is hurting for traffic people and hams to fill League positions that will do a good job. The SCM is the person to see, W1JP, Bill Hall.



Name: \_\_\_\_\_ Call: \_\_\_\_\_

## AMATEUR RADIO EMERGENCY SERVICE REGISTRATION FORM



Address: \_\_\_\_\_  
City: \_\_\_\_\_ State/Prov.: \_\_\_\_\_ Zip/PC: \_\_\_\_\_  
Bus. phone: \_\_\_\_\_ Home phone: \_\_\_\_\_ County: \_\_\_\_\_  
License Class: \_\_\_\_\_ Primary radio interest: \_\_\_\_\_

Check (✓) bands/modes you can operate:

	160	80	40	20	15	10	6	2
CW								
FM								
RTTY								
SSB								
MOBILE								

Can your home station operate without commercial power? [ ] YES [ ] NO

If yes, what bands? \_\_\_\_\_

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Return to;  
Dick Goodman  
PO Box 591  
Williamstown, Ma  
01267

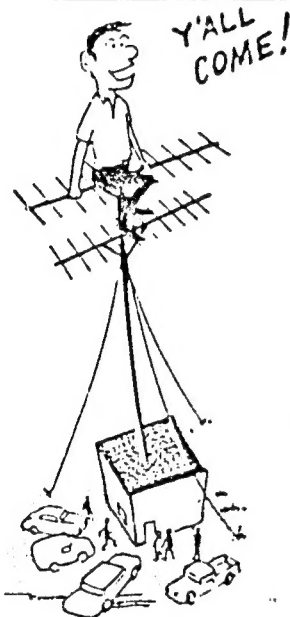
WMPN - 3.935 khz, 1630 Mon-Fri  
 WALITL, mgr  
 WMN - 3.562 khz, 1900 daily  
 KALT, mgr  
 WMEN - 3.937 khz 0830 Sunday  
 K1BE, mgr

#### Member Repeaters

K1FFK	146.31/.91
K1ZJH	146.34/.94
WRLAEF	146.10/.70
W1GZ	146.46/.76
WRLABO	146.37/.97
K1FFK	52.23/53.23

#### Emergency Coordinators

Berkshire	Ed Prezenik, 41 Ridgway, Pittsfield 01201 (WB1DBN)
Franklin	Dick Cunningham, 46 High St, Erving 01344 (WB1HKN)
Hampshire	Dave Schwartz, 1183 Southeast St, Amherst 01002 (W1GAJ)
Hampden	Jeff Duquette, POB 346, Southwick, 01077 (K1BE)
N. Worcester	Tom Duffy, 14 Cherry St, Leominster 01453 (K1JHC)
S. Worcester	B. Doktor, 1 Liberty St, Warren 01083 (K1JNT)



#### FIELD DAY-1982!!!!

Well, gang, last year we screwed up thinking it was the QSL Bureau's 15th anniversary! Our info was all wrong. Nuff said.

We're planning another fun-time-on-the-old-bands-tonight up at Middlefield! A supper is on for Saturday evening, where we can sit around and chew the fat. (Price of fat's gone up too!) Band captains can sign up for any of these by contacting K1BE at 569-6739 evenings. As a EC, you'll provide a complete station with operators to run all of Field Day. Here's what's available:

160	cw/phone	80m	ssb
80m	cw (W1TM)	40m	ssb
40m	cw	20m	ssb
	20m cw	15m	ssb
	15m cw (W1ZKT)	10m	ssb
	10m cw	6m	cw/ssb
	2m cw/phone	other	
	Novice station		

## FIELD DAY!

Arrl Bulletin # 32, ARRL Hdqtrs, Newington, Conn. TO ALL RADIO AMATEURS: As a means of implementing the FCC's NPRM 82/83, the mode and license class band proposal, the Federal Communications Commission has issued the following order: 1) Amateur radio call sign prefixes will incorporate an additional letter indicative of the class of the operator license, held by the licensee. The first and second (if applicable) letter in the suffix will remain the same. However, the single letter, E for extra, A for advanced, G for general, T for technician, and N for novice is to be inserted between the prefix and numeral of the station call. 2) existing two letter suffix calls will expire on July 1, 1983. Individuals holding these calls will automatically receive new calls reflecting their class of license. Further details will appear in QST.

(Editor's note: More information is expected from W1AW shortly. This will be relayed via our two meter net Monday evenings at 8 pm on 144.155mhz)



OPERATION OF THE WESTERN MASS. CW TRAFFIC NET: (Daily at 7 pm,  
on 3562. WMN has been in operation since 1932!



#### CHECKING IN:

When there is a break, call the Net Control Station. (NCS)  
He will send your call. i.e. (WlKK) NCS... "QNI, K" ; You- "WlKK de  
AClT" or send something to let him know you're there: "T". NCS-  
"AClT, K" or "T, K". You- "QRU, K" or "WlKK de AClT, QRU, K"  
NCS- "R, AS..."

If you haven't got traffic, send "QRU" and wait for instructions  
from him. If you have traffic to send, report it thusly: any for  
within our section list by calls or towns. Any going out of WM lump  
together as "THRU". i.e. Suppose you have one for CONN, one for  
Maine, and two for California. You would say "QTC THRU 4". The NCS  
takes it from there. DO NOT LEAVE A NET UNTIL DISMISSED BY THE NCS  
or when he sends "QNF" meaning the net is free.

#### DURING THE NET:

Immediate break-in is desirable but not necessary. Most NCS  
have it. So, if you're copying traffic and begin to miss, just hold  
your key down for a few seconds; The NCS will probably send a  
question mark, (...--...). You then send the last word you received  
correctly and he will then resume the message.

In some cases the NCS may call you and a station that has traffic  
and say; "U 5" or "D 3". That means five khz up or 3 khz down to  
handle the traffic. The receiving station should call first. After  
the traffic, you go to the net frequency and just send your call  
during a break. The NCS will acknowledge.

#### EXPLANATION OF REPORT CARD:

Orig.- A message filed at your station by a third party, either in  
person, by telephone, or mail. You get one point for accepting  
the message.

RECD.- One point for each radiogram received by you via radio.

SENT- One point for each message sent by your station.

DELD.- One point for each message delivered by you, in person, by  
mail, or by telephone.

#### SAMPLE MESSAGE:

NR 1 R WlBVR 7 Lanesboro, Mass Aug 19 (Preamble)  
to Joe Blow, 18 Main Street, Podunk, Maine 30341 555-1111 (Address)  
-...- WAITING PATIENTLY FOR YOUR QSL X 73 -...- (Message)  
Perce WlBVR .-.-.- (Signature)

NR- any number you wish to assign.

R- Routine message; P- Priority; Spell out "Emergency"

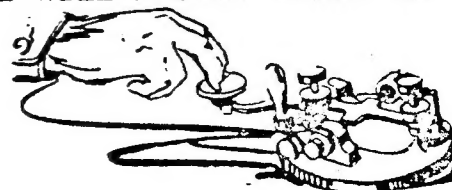
7- number of words in text.

X - means "period". Note that "73" is part of the text!

Report your traffic by the fifth of each month to the SCM.

#### MISCELLANEOUS:

If a net did not take on new members, it would eventually pass out  
of existence. We welcome all newcomers! WE WILL ADJUST SPEED AS  
NECESSARY. Come on in and have some fun.



## QUIZICAL QUIZ

SCORE PLUS 1 FOR (G) GENERAL QUESTION

SCORE MINUS 1 FOR (T) TECHNICAL QUESTION

1. (G) WILL YOU SAVE ENERGY IF YOU INSTALL FRAMELESS DOORS WITH INVISIBLE PANELS?
2. (T) IS IT TRUE THUNDER MAKES NO SOUND IF NO ONE HEARS IT?
3. (G) IS 5 CENT CANDY, THAT WAS 10 CENTS, NOW 15 CENTS?
4. (T) ARE GOOD GROUNDS MADE FROM COFFEE?
5. (G) DO OWLS GIVE A HOOT ABOUT DAYLIGHT?
6. (T) IS A REPEATER A STOOL PIEGEON?
7. (G) WOULD YOU SAY MONDAY IS THE FIRST DAY OF THE WEEK?
8. (T) WAS NEWTON GOOFING OFF UNDER AN APPLE TREE WHEN HE DISCOVERED GRAVITY?
9. (G) CAN SIX AIRPLANES FLY IN A FOUR-MATION?
10. (T) IS INPUT CAPACITANCE THE AMOUNT OF 807'S YOU CAN HANDLE?
11. (G) IS DRY ICE WET WHEN IT MELTS?
12. (T) WHAT IS 1/2 OR 2/3RDS OF A YARD?
13. (G) DOES A FAT CHANCE AND A SLIM CHANCE MEAN THE SAME THING?
14. (T) IS A TRANSISTOR STILL GOOD EVEN THOUGH IT HAS A HOLE IN ITS HEAD?
15. (G) WOULD A LENGTH OF STRING BE TWICE THE DISTANCE FROM CENTER TO ONE END - WHICH END?
16. (T) WILL USING A BIGGER MICROPHONE INCREASE OUTPUT?
17. (G) ARE BLUEBERRIES RED WHEN THEY ARE GREEN?
18. (T) HOW MANY TURNS DOES IT TAKE TO MAKE HENRY DIZZY?
19. (G) IS ONE AND ONE TWO OR ELEVEN?
20. (T) IF YOU MOVED FROM ATLANTIC CITY TO WASHINGTON D.C. WOULD YOU BE GOING FROM AC TO DC?

SCORE

YOUR I.Q.

0 TO 4	11 METER FUGITIVE
5 TO 8	SEE QUESTION #10
9 TO 12	TIME DX IS GOOD FROM THE FAR EAST
11 TO 16	ALMOST 4 O'CLOCK
17 TO 20	AS 21 IS TO 24

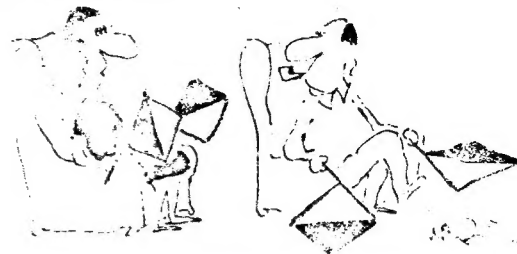


ZERO BEAT

### TIDBITS

As you know, last month we were privileged to hear a Chinese ham as our guest speaker. Unfortunately he didn't know when the "BY's" would be allowed back on the air. So sollee!...

WBlGLZ's daughter has been selected in art school for a program of advanced study. FB, AL...WlKZU is a silent key, our condolences to the family of Bert Binns... Norbills is now closed... WlJP, WBlABF, KLIJU, and KLIJV had a blast on Tortola. Must have worked every club member too!!!



"Charles, how come we never talk anymore?"

### FOR SALE

Swan Model 350B Single Sideband Transceiver,  
10 thru 30 meters, PEP 125W SSB, 90W CW . . . \$340.00

Straight Key (Mounted) . . . . . 4.00

Cushcraft ATV-3 Vertical Antenna, 10, 15, 20  
meters, plus 50' co-ax (ground mounted, you  
remove) . . . . . 40.00

MFJ Model 900 Antenna Tuner . . . . . 40.00

Heathkit Dual Wattmeter, Model HM-2140 . . . 65.00

Astatic Hi Impedence Microphone, Model G . . 25.00

Plus 1980 U.S. Callbook and supplements

Total . . . . . \$514.00

\$500.00 cash to one buyer or at individual prices otherwise

Call Bill, KALERS, 568-5630 (Westfield, Mass.)

<i>For SALE</i>	H.F. station	\$500.00
High	Yaesu FTdx570, 560 watts PEP max., mint cond.	
Freq.	CW Filter, Unique wire Tuner,	
rig	matching external speaker	
	Heathkit Cantenna Dummy Load	
	yaesu yd844 microphone	

CALL KALCRG 525-6202

CONGRATULATIONS!!! To WALOPN for passing amateur extra class!!!!  
Gail is a blind, deaf, and dumb amateur with severe coordination control problems, and yet she has passed extra! Gail uses her fingertips on a speaker to copy cw, her usual mode of communication. A special thank you to WlTM, who spent many evenings helping her with the theory, and to WlKK for all his encouragements. WELL DONE!

WHY IS ZERO BEAT OUT EARLY WHEN THE MEETING ISN'T TILL APRIL?

BECAUSE THE MEETING DATE HAS BEEN CHANGED TO MARCH 26  
SEE DETAILS ON PAGES 1 AND 3

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FOR SALE

\$575.00 FT101E E?W ALL CRYSTALS, PROCESSOR, HANDMIKE, CABLES, MANUALS

\$200.00 IC2AT H.T. E?W TT PAD, B.H.

\$50.00 ICOM SPEAKER MIKE AND BP\*3

will sell all items (ICOM items) as package for \$240.00

WANTED

AMECO PT-2 PREAMPLIFIER

HALLICRAFTERS R46B SPEAKER

CALL BILL WIMDL 538 8900

HAMPDEN COUNTY RADIO ASSOCIATION, INC  
RAY MORIN, KALCRC, EDITOR  
97 BROOKHAVEN DR.  
EAST LONGMEADOW, MASS. 01028

APRIL ZERO BEAT